

**IN THE CLAIMS:**

Please cancel claims 1, 18 and 30 without prejudice and amend claims 2-4, 6-8, 10-14, 16, 17, 20-22, 24, 25, 28, 29, and 31-34 as follows.

1. (Canceled)
2. (Currently Amended) A method according to claim ~~1~~ 14, wherein said interception gateway element is integrated in said second network element.
3. (Currently Amended) A method according to claim ~~1~~ 14, wherein a header of a data packet is read by said second network element and data packets to be intercepted are duplicated.
4. (Currently Amended) A method according to claim ~~1~~ 14, wherein said intercepted data packet is transmitted to said interception gateway element using a secure tunnel.
5. (Original) A method according to claim 4, wherein said secure tunnel is implemented by an encryption processing.
6. (Currently Amended) A method according to claim ~~1~~ 14, wherein said intercepted data packet is transmitted via interworking units and encrypted between said

interworking units, when said first network element and said interception gateway element are arranged in separate network segments.

7. (Currently Amended) A method according to claim ~~1~~14, wherein said first network element is provided in each network segment of said packet network.

8. (Currently Amended) A method according to claim ~~1~~14, wherein received intercepted data packets are collected in said interception gateway element and supplied to an interface of said at least one intercepting authority.

9. (Original) A method according to claim 8, wherein said interface comprises a first interface for administrative tasks, a second interface for network signaling, and a third interface for intercepted user data.

10. (Currently Amended) A method according to claim ~~1~~14, wherein said intercepting function comprises a packet sniffing and filtering function.

11. (Currently Amended) A method according to claim 10, wherein said intercepting function is implemented in ~~the~~ a Gn interface.

12. (Currently Amended) A method according to claim ~~1~~ 14, wherein said interception function comprises reading data packets, analyzing the header of the data packets as to whether the data packet should be intercepted or not, and transmitting the data packet to said interception gateway element, and a management function for interception and transmission criteria.

13. (Currently Amended) A method according to claim ~~1~~ 14, wherein an alarm is transmitted to said interception gateway element and all interception information of a respective network element is deleted, when a breakage of a casing of the respective network element has been detected.

14. (Currently Amended) An interception method for performing a lawful interception in a packet network, comprising the steps of:

a) providing a first network element having an interception function for intercepting data packets;

b) controlling said interception function by an interception control means implemented in a second network element; and

c) transmitting an intercepted data packet from said first network element via said packet network to an interception gateway element providing an interface to at least one intercepting authority, wherein said first network element generates fake packets to be transmitted with said intercepted data packets and the

~~A method according to claim 1, wherein~~ fake packets are transmitted from said first network element to said interception gateway element.

15. (Previously Presented) A method according to claim 14, wherein said fake packets are transmitted at random or triggered at any passing packet, such that the total load of intercepted and fake packets transmitted to said interception gateway element is constant.

16. (Currently Amended) A method according to claim ~~1~~ 14, wherein said intercepted data packet is padded to a maximum length.

17. (Currently Amended) A method according to claim ~~1~~ 14, wherein a time information is added to said intercepted data packet.

18. (Cancelled)

19. (Previously Presented) A system according to claim ~~18~~ 21, wherein said second network element corresponds to said interception gateway element.

20. (Previously Presented) A system according to claim ~~18~~21, wherein said first network element further comprises an encrypting means for encrypting said intercepted data packet.

21. (Currently Amended) An interception system for performing a lawful interception in a packet network, comprising:

a) a first network element having an interception function for intercepting data packets and comprising a transmitting means for transmitting an intercepted data packet to said packet network;

b) an interception control means implemented in a second network element and controlling the interception function; and

c) an interception gateway element having a receiving means for receiving said intercepted data packet and an interface means for providing an interface to at least one intercepting authority,

~~A system according to claim 18,~~ wherein said first network element further comprises a means for generating fake packets to be transmitted with said intercepted data packets.

22. (Currently Amended) A system according to claim ~~18~~21, wherein said first network element comprises a reading means for reading a header of a received data packet and for duplicating a data packet to be intercepted.

23. (Previously Presented) A system according to claim 22, wherein said reading means is arranged to pad said copied data packet to a maximum length.

24. (Currently Amended) A system according to claim ~~18~~ 21, wherein said first network element is a gateway element of said packet network.

25. (Currently Amended) A system according to claim ~~18~~ 21, wherein said first network element is a BG, an SGSN or a GGSN.

26. (Previously Presented) A system according to claim 24, wherein an interception information defining a data packet to be intercepted is included in a context information supplied to said first network element and used for routing data packets.

27. (Previously Presented) A system according to claim 26, wherein said interception control means comprises a storing means for storing an interception list, and wherein said interception control means is arranged to add said interception information to said context information supplied to said first network element.

28. (Currently Amended) A system according to claim ~~18~~ 21, wherein said first network element is arranged in each segment of said packet network.

29. (Currently Amended) A system according to claim ~~18~~ 21, wherein said first network element comprises a control means for controlling interception and encryption processing in accordance with an interception setting instruction received from said interception control means.

30. (Cancelled)

31. (Currently Amended) An interception system for performing a lawful interception in a packet network, comprising:

a) a first network element having an interception function for intercepting data packets and comprising a transmitting means for transmitting an intercepted data packet to said packet network;

b) an interception control means implemented in a second network element and controlling the interception function; and

c) an interception gateway element having a receiving means for receiving said intercepted data packet and an interface means for providing an interface to at least one intercepting authority, wherein said interception gateway element comprises a memory means for storing received intercepted data packets before supplying them to said interface means,

~~A system according to claim 30,~~ wherein said interception gateway element comprises a decryption means for removing an encryption of the received intercepted data packets, an extraction means for extracting intercepted data packets from fake data

packets, and a means for adding a time information to said received intercepted data packets before storing them in said memory means.

32. (Currently Amended) A system according to claim ~~18~~ 21, wherein said first network element comprises a detecting means for detecting a malfunction and/or breakage thereof, and signaling means for signaling an alarm to said interception gateway element in response to an output of said detecting means.

33. (Currently Amended) A network element for a packet network, comprising:  
a) an interception means for intercepting a data packet received from said packet network, and

b) a transmitting means for transmitting said intercepted data packet via said packet network to an interception gateway element,

c) wherein said interception means is controlled by an interception control means arranged in another network ~~element~~. element, and said network element further comprises a means for generating fake packets to be transmitted with said intercepted data packets and the fake packets are transmitted from said network element to said interception gateway element.

34. (Currently Amended) An interception gateway element for an interception system of a packet network, comprising:



a) a receiving means for receiving an intercepted data packet via said packet network from a network element having an interception function; ~~and~~

b) an interface means for providing an interface to an intercepting ~~authority.~~  
authority; and

c) a memory means for storing received intercepted data packets before supplying them to said interface means wherein said interception gateway element comprises a decryption means for removing an encryption of the received intercepted data packets and a means for adding a time information to said received intercepted data packets before storing them in said memory.

35. (Previously Presented) An interception gateway element according to claim 34, further comprising an interception control means for controlling said interception function of said network element.